

OPINIONS AND DECLARATIONS
RENDERED BY THE INTER-
NATIONAL COMMISSION ON
ZOOLOGICAL NOMENCLATURE

Edited by

FRANCIS HEMMING, C.M.G., C.B.E.

Secretary to the Commission

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OPINION 315

Addition of the generic name *Spirula* Lamarck, 1799
(Class Cephalopoda) to the *Official List of Generic Names*
in Zoology



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INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

COMPOSITION AT THE TIME OF THE ADOPTION OF THE RULING GIVEN IN OPINION 315

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Secretary : Mr. Francis Hemming (*London, England*).

B. The Members of the Commission

(arranged in order of precedence by reference to date of election or of most recent re-election, as prescribed by the International Congress of Zoology).

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Mr. Francis HEMMING (*London, England*) (*Secretary*) (27th July 1948).

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Dr. Henning LEMCHE (*Universitetets Zoologiske Museum, Copenhagen, Denmark*) (27th July 1948).

Professor Teiso ESAKI (*Kyushu University, Fukuoka, Japan*) (17th April 1950).

Professor Pierre BONNET (*Université de Toulouse, France*) (9th June 1950).

Mr. Norman Denbigh RILEY (*British Museum (Natural History), London*) (9th June 1950).

Professor Tadeusz JACZEWSKI (*Department of Systematic Zoology, Warsaw University, Warsaw, Poland*) (15th June 1950).

Professor Robert MERTENS (*Natur-Museum u. Forschungs-Institut Senckenberg, Frankfurt a. M., Germany*) (5th July 1950).

Professor Erich Martin HERING (*Zoologisches Museum der Humboldt-Universität zu Berlin, Germany*) (5th July 1950).

OPINION 315

ADDITION OF THE GENERIC NAME "SPIRULA" LAMARCK, 1799 (CLASS CEPHALOPODA) TO THE "OFFICIAL LIST OF GENERIC NAMES IN ZOOLOGY"

RULING :—(1) The under-mentioned generic name is hereby placed on the *Official List of Generic Names in Zoology* as Name No. 757 :—*Spirula* Lamarck, 1799 (gender : feminine) (type species, by monotypy : *Nautilus spirula* Linnaeus, 1758) (Class Cephalopoda).

(2) The under-mentioned specific name is hereby placed on the *Official List of Specific Names in Zoology* as Name No. 182 :—*spirula* Linnaeus, 1758, as published in the combination *Nautilus spirula* (specific name of type species of *Spirula* Lamarck, 1799).

(3) The under-mentioned generic names are hereby placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* as Names Nos. 160 and 161, and 167 to 169 respectively :—(a) *Spirulea* Péron & Lesueur, 1807 (an Invalid Emendation of *Spirula* Lamarck, 1799) ; (b) *Spirulaea* Agassiz (J.L.R.), 1845 (an Invalid Emendation of *Spirula* Lamarck, 1799) ; (c) *Lituina* Link, 1807 (a junior objective synonym of *Spirula* Lamarck, 1799) ; (d) *Spirulaea* Oken, 1815 (a junior objective synonym of *Spirula* Lamarck, 1799) ; (e) *Spirulaeus* Duméril, 1806 (a junior objective synonym of *Spirula* Lamarck, 1799).

(4) The under-mentioned specific name is hereby placed on the *Official Index of Rejected and Invalid Specific Names in Zoology* as Name No. 87 :—*fragilis* Lamarck, 1801, as published in the combination *Spirula fragilis* (a junior objective synonym of *spirula* Linnaeus, 1758, as published in the combination *Nautilus spirula*).

I.—THE STATEMENT OF THE CASE

On 22nd March 1949, Mr. R. Winckworth (*London*) submitted to the Commission the following application for the addition of the generic name *Spirula* Lamarck, 1799 (Class Cephalopoda) to the *Official List of Generic Names in Zoology* :—

Application for the addition of the name “*Spirula*” Lamarck, 1799 (Class Cephalopoda) to the “*Official List of Generic Names in Zoology*” and matters incidental thereto

By R. WINCKWORTH (*London*)

1. Application is hereby made for the International Commission on Zoological Nomenclature to place the name *Spirula* Lamarck, 1799 (*Mém. Soc. Hist. nat. Paris* 1799 : 80) (gender of name : feminine) on the *Official List of Generic Names in Zoology*. The only species then placed in this genus by Lamarck was *Nautilus spirula* Linnaeus, 1758 (*Syst. Nat.* (ed. 10) 1 : 710), which is therefore the type species by monotypy.

2. Apart from the use of the spelling *Spirulea* by Péron and Lesueur in 1807 (*Voy. Aust.*, Atlas 1 : pl. xxx) and by Oken in 1815 (*Lehrbuch Naturgesch.* 3(1) : 333) and the emendation of that spelling to *Spirulaea* by Agassiz (L.) in 1845 (*Nomencl. zool.* (Moll.)), and the use for this genus of the name *Lituus* Cuvier, 1817 (*Règn. anim.* 2 : 369), by Gray in 1849 in a catalogue, the entire literature since the time of Lamarck refers to this genus under the name *Spirula*. The variants *Spirulea* and *Spirulaea* should be placed on the *Official Index of Rejected and Invalid Generic Names* at the same time that the name *Spirula* Lamarck is placed on the *Official List*.

3. The trivial name *spirula* Linnaeus, 1758, as published in the binominal combination *Nautilus spirula*, is the oldest available name for the type species of *Spirula* Lamarck and should be placed on the *Official List of Specific Trivial Names* at the same time that the name *Spirula* Lamarck is placed on the *Official List of Generic Names*. In 1801 (*Syst. Anim. sans Vertèbr.* : 102) Lamarck renamed this species *Spirula fragilis*; the invalid trivial name *fragilis* Lamarck, 1801, should be placed on the *Official Index of Rejected and Invalid Specific Trivial Names in Zoology*.

II.—THE SUBSEQUENT HISTORY OF THE CASE

2. **Registration of the present application** : On the receipt of Mr. Winckworth's application, the question of the addition of the generic name *Spirula* Lamarck, 1799, to the *Official List of Generic Names in Zoology* was allotted the Registered Number Z.N.(S.)416.

3. Publication of the present application : At the time of the receipt of Mr. Winckworth's application the resources of the Commission were wholly devoted to the preparation and publication of the Official Records of the Session held by the Commission in Paris in 1948 and it was not until the autumn of 1950 that it was possible to resume arrangements for the publication in the *Bulletin of Zoological Nomenclature* of applications relating to individual nomenclatorial problems. Mr. Winckworth's application was sent to the printer in March 1951 and was published on 15th August 1951 in Double-Part 9/10 of volume 2 of the *Bulletin* (Winckworth, 1951, *Bull. zool. Nomencl.* 2 : 298). The publication of this application elicited no objection to the action proposed.

4. Support received from Mr. Leslie Bairstow (British Museum (Natural History), London) : On 29th March 1952 Mr. Leslie Bairstow (*British Museum (Natural History), London*) addressed to the Commission the following letter in support of the present application :—

1. If it is not too late, I should like to support Mr. R. Winckworth's application (which has only recently come to my notice) for the addition of the name *Spirula* Lamarck, 1799, to the *Official List of Generic Names in Zoology*.

2. *Spirula* is one of the genera the nomenclature of which I have had occasion to investigate for the section on dibranchiate cephalopods for the international *Treatise on Invertebrate Paleontology*. The conclusions that I have reached independently agree to a large extent with those of Mr. Winckworth, and only a few points call for comment.

(a) L. Agassiz, 1845, was by no means the first author to introduce the generic name *Spirulaea*. This name had already been applied to *Spirula* by Oken, 1835 (*Allgemeine Naturgeschichte* 5(1) : 531), who had referred to the genus only the single nominal species *Nautilus spirula*. By monotypy, therefore, this species is type species of *Spirulaea* Oken, 1835, which is thus an objective synonym of *Spirula* Lamarck, 1799. Furthermore, however, *Spirulaea* Oken, 1835, is an absolute homonym of *Spirulaea* Bronn, 1828 (*Taschenb. Min.* 21(2) [*Z. Min.* 1827] : 544), which is either an annelid or a vermetid gastropod ; whilst under the revised Article 34, *Spirulaea* Bronn, 1828, is itself an effective homonym of *Spirulea* Péron and Lesueur, 1807.¹

¹This statement was correct at the time when it was written, but at Copenhagen in 1953 the Fourteenth International Congress of Zoology amended Article 34 to provide that : "A generic name is not to be treated as a homonym of another such name if it differs from it in spelling by even one letter." (1953, *Copenhagen Decisions Zool. Nomencl.* : 78, Decision 152).

(b) It is true that almost the entire literature since Lamarck, 1799, refers to the genus *Spirula* by that name, but Mr. Winckworth's list of exceptions was by no means complete. In particular it should be noted that among the synonyms of *Spirula* are *Spirularius*, *Lituina* and *Spirulites*.

3. *Spirularius* Duméril, 1806 (*Zoologie analytique* : 157) was established with no nominal species distinctly referred to it, but in a translation with additions published later in the same year by L. F. Froriep, 1806 (*C. Duméril's . . . Analytische Zoologie* : 157) *Nautilus spirula* L. was quoted as sole example of *Spirularius*, and this species, as the first nominal species subsequently referred to *Spirularius*, is automatically its type species. *Spirularius* Duméril, 1806, is thus an objective synonym of *Spirula* Lamarck, 1799.

4. *Lituina* Link, 1807 (*Beschreibung der Naturalien-Sammlung der Universität zu Rostock. Abt. 2* : 84) was established with a single species *L. spirula* = *Nautilus spirula* Linnaeus, which is therefore type species by monotypy. *Lituina* Link, 1807, is thus an objective synonym of *Spirula* Lamarck, 1799.

5. *Spirulites* Parkinson, 1811 (*Organic Remains of a Former World* 3 : 110) was established for fossil shells of the genus *Spirula* Lamarck, and is thus an objective synonym of *Spirula* Lamarck, 1799, even though applied by Parkinson to specimens, not specifically named, that would not now be regarded as falling within the limits of *Spirula*.

6. The names *Spirularius*, *Lituina* and *Spirulites*, as well as *Spirulea* and *Spirulaea*, should be put on the *Official Index of Rejected and Invalid Generic Names* at the same time that the name *Spirula* Lamarck is put on the *Official List*.

III.—THE DECISION OF THE INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE

5. **Issue of Voting Paper V.P.(52)35** : On 9th May 1952, Mr. Hemming, as Secretary, issued a Voting Paper (V.P.(52)35) to the Members of the Commission in regard to the present application. In doing so, Mr. Hemming added a note that Mr. Winckworth, the applicant in this case, had unfortunately died before having had an opportunity to formalise his application in a form convenient for the Commission to vote upon it, and that, to remedy this defect, he (Mr. Hemming) had prepared the required summary which he had caused to be typed at the foot of the

Voting Paper then issued. In that Voting Paper the Members of the Commission were invited to vote either for, or against, "the proposal relating to the name *Spirula* Lamarck, 1799, submitted by the late Mr. R. Winckworth, as summarised at the foot of the present Voting Paper in the light of the application published on page 298 of volume 2 of the *Bulletin of Zoological Nomenclature*". The following is the summary referred to above :—

Summary of Mr. Winckworth's proposal in the present case :

The International Commission is asked :—

- (1) to place the name *Spirula* Lamarck, 1799 (gender of name : feminine) (type species, by monotypy : *Nautilus spirula* Linnaeus, 1758), on the *Official List of Generic Names in Zoology* ;
- (2) to place the trivial name *spirula* Linnaeus, 1758, as published in the combination *Nautilus spirula*, on the *Official List of Specific Trivial Names in Zoology* ;
- (3) to place on the *Official Index of Rejected and Invalid Generic Names in Zoology* the following objectively invalid spelling variants of the name *Spirula* Lamarck : (a) *Spirulea* Péron and Lesueur, 1807 ; (b) *Spirulaea* Agassiz (L.), 1845 ;
- (4) to place the trivial name *fragilis* Lamarck, 1801, as published in the combination *Spirula fragilis*, an objective junior synonym of *spirula* Linnaeus, 1758, as published in the combination *Nautilus spirula*, on the *Official Index of Rejected and Invalid Specific Names in Zoology*.

6. The Prescribed Voting Period : As the foregoing Voting Paper was issued under the Three-Month Rule, the Prescribed Voting Period closed on 9th August, 1952.

7. Particulars of the Voting on Voting Paper V.P.(52)35 : The state of the voting on Voting Paper V.P.(52)35 at the close of the Prescribed Voting Period was as follows :—

- (a) *Affirmative Votes had been given by the following seventeen (17) Commissioners (arranged in the order in which Votes were received) :*

Hering ; Riley ; Dymond ; Calman ; Hankó ; Bonnet ; Vokes ; do Amaral ; Bradley ; Boschma ; Pearson ; Hemming ; Esaki ; Lemche ; Mertens ; Stoll ; Cabrera ;

(b) *Negative Votes* :

None ;

(c) *Voting Paper not returned, one (1)* :

Jaczewski.

8. Declaration of Result of Vote : On 10th August 1952, Mr. Hemming, Secretary to the International Commission, acting as Returning Officer for the Vote taken on Voting Paper V.P.(52)35, signed a Certificate that the Votes cast were as set out in paragraph 7 above and declaring that the proposal submitted in the foregoing Voting Paper had been duly adopted and that the decision so taken was the decision of the International Commission in the matter aforesaid.

9. Addition to the " Official Index of Rejected and Invalid Generic Names in Zoology " of three junior objective synonyms of " Spirula " Lamarck, 1799 : On 29th March 1954 Mr. Hemming, as Secretary, placed the following Minute on the Commission's File Z.N.(S.) 416 :—

" Spirula " Lamarck, 1799 : addition of three junior objective synonyms to the " Official Index of Rejected and Invalid Generic Names in Zoology "

MINUTE by FRANCIS HEMMING, C.M.G., C.B.E.

(*Secretary to the International Commission on Zoological Nomenclature*)

I regret that through an oversight the recommendations submitted with Voting Paper V.P.(52)35 referred only to the proposals submitted by the late Mr. Winckworth and did not take account of the communication received from Mr. Leslie Bairstow drawing attention to the existence of other junior objective synonyms of the generic name *Spirula* Lamarck, 1799. In view of the decision taken by the Commission on the foregoing Voting Paper these names must, under the General Directive given to the Commission by the International Congress of Zoology, now be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology*.

2. I accordingly hereby direct that in the Ruling to be given in pursuance of the decision taken by the Commission on Voting Paper V.P.(52)35 the following additional names, each of which is a junior

objective synonym of the name *Spirula* Lamarck, 1799, be placed on the *Official Index of Rejected and Invalid Generic Names in Zoology* :— (a) *Spirularius* Duméril, 1806 ; (b) *Lituina* Link, 1807 ; (c) *Spirulaea* Oken, 1815. As regards the last of the names mentioned by Mr. Bairstow, namely *Spirulites* Parkinson, 1811, the position is that, although established to represent a concept regarded by Parkinson as identical with that represented by *Spirula* Lamarck, the nominal genus *Spirulites* Parkinson, 1811, was expressly established for the reception of Fossil species of Lamarck's genus *Spirula*, and there is no clear evidence that its type species is the same nominal species as that which is the type species of *Spirula* Lamarck, 1799. I therefore consider that at this time the name *Spirulites* Parkinson, 1811, should not be placed on the *Official Index* and I accordingly direct that it be not added thereto.

10. On 29th March 1954, Mr. Hemming prepared the Ruling given in the present *Opinion* and at the same time signed a Certificate that the terms of that Ruling were in complete accord with those of the proposal approved by the International Commission in its Vote on Voting Paper V.P.(52)35, subject to the amplification specified in the Minute by the Secretary dated 29th March 1954 reproduced in paragraph 9 of the present *Opinion*.

11. The following are the original references for the names placed on the *Official Lists* and *Official Indexes* in the Ruling given in the present *Opinion* :—

fragilis, *Spirula*, Lamarck, 1801, *Syst. Anim. sans Vertèbr.* : 102
Lituina Link, *Beschr. Natur.-Samml. Univ. Rostock* (2) : 84
Spirula Lamarck, 1799, *Mém. Soc. Hist. nat. Paris* 1799 : 80
spirula, *Nautilus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 710
Spirulaea Oken, 1815, *Allgem. Naturgesch.* 5(1) : 531
Spirulaea Agassiz (J.L.R.), 1845, *Nomencl. zool.* (Moll.) : 84
Spirulaeus Duméril, 1806, *Zool. analyt.* : 157
Spirulea Péron & Lesueur, 1807, *Voy. Aust.*, Atlas 1 : pl. xxx

12. The application dealt with in the present *Opinion* was published in the *Bulletin of Zoological Nomenclature* prior to the establishment of the *Official List of Family-Group Names in Zoology* by the Fourteenth International Congress of Zoology, Copenhagen, 1953. It has not been possible since then to deal with this aspect of the present case. This question is, however,

now being examined on a separate File to which the Registered Number Z.N.(G.) 75 has been allotted.

13. At the time of the adoption of the Ruling given in the present *Opinion*, the expression prescribed for the second portion of the binomen which constitutes the scientific name of a species was the expression "trivial name" and the *Official List* reserved for recording such names was styled the *Official List of Specific Trivial Names in Zoology*, the word "trivial" appearing also in the title of the *Official Index* reserved for recording rejected and invalid names of this category. Under a decision taken by the Fourteenth International Congress of Zoology, Copenhagen, 1953, the expression "specific name" was substituted for the expression "trivial name" and corresponding changes were made in the titles of the *Official List* and *Official Index* of such names (1953, *Copenhagen Decisions zool. Nomencl.* : 21). The changes in terminology so adopted have been incorporated in the Ruling given in the present *Opinion*.

14. The prescribed procedures were duly complied with by the International Commission on Zoological Nomenclature in dealing with the present case, and the present *Opinion* is accordingly hereby rendered in the name of the said International Commission by the under-signed Francis Hemming, Secretary to the International Commission on Zoological Nomenclature, in virtue of all and every the powers conferred upon him in that behalf.

15. The present *Opinion* shall be known as *Opinion* Three Hundred and Fifteen (315) of the International Commission on Zoological Nomenclature.

DONE in London, this Twenty-Ninth day of March, Nineteen Hundred and Fifty-Four.

*Secretary to the International Commission
on Zoological Nomenclature*

FRANCIS HEMMING